



Indiana's Near Space Port

Objectives

OVERVIEW





Objectives

65,000-100,000 Feet
Opens a New Door
Of Opportunity

- Access To Near Space
- Operational Validation
- *ISR/EW*
- UAV Launch and Test
- National Guard, Navy, Army Air Force
- Urban Operations Support
- Disaster Preparation/Relief

A New Staging Area for Multiple Users and Applications



Welcome to a new Playground

**THE RIGHT
PLACE AND TIME**



A New Staging Area for unmanned High-Tech Capabilities

HALE
Balloons
Recon
Surveillance
Situational Awareness
Disaster Assessment
Long Range Communications
Testing/Validation

65,000 +

Commercial Aircraft
Military Aircraft

30,000 +

Let's
Move Activities
Up There
More Space...
Fewer Restrictions

FAA Clearances
Congested Airspace
Amateur/RC/GA
Helicopter/Tethered

0-30,000'



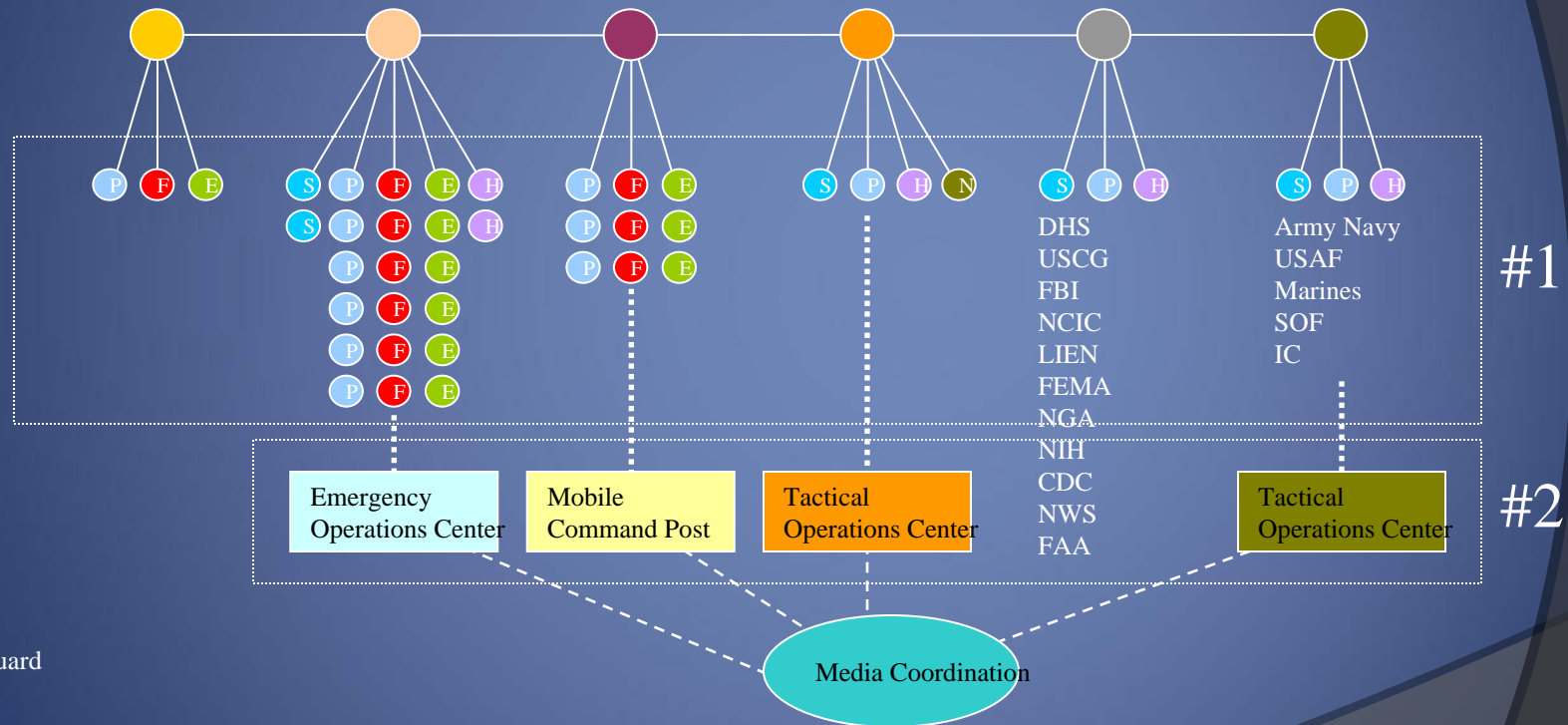
More Capability



Communications Capabilities



City of Indianapolis Greater Indianapolis Community Surrounding Indiana Communities State Resources Federal Resources (Civilian) Federal Resources (DoD)



1. How do you securely extend communications access to multiple, unrelated, mobile field elements (each utilizing different communications infrastructure) in real time?
2. How do you coordinate command and control across multiple elements in real time?



Indiana's Environment

- ◎ What is Indiana:
 - An emerging, innovative force in defense electronics and manufacturing.
 - Home of experienced engineers, designers and business managers.
 - A mix of companies with extensive experience in propulsion, telemetry, guidance, structural design and aerodynamics within US armed services and NASA.
 - A member of the National Space Grant Consortium Group
 - Home to experienced government contractors to US armed services/DOD.



Space Port = Jobs/Revenue

◉ What the Near Space Port Offers:

- Recognition of Indiana as a leader in aerospace activities
- Another access point in national space port system
- National Urban Operations Test Bed Support Piece
- A support facility for opportunities like Grand Challenge
- Participate in \$1B+ ISR/SAA Contracts in next 10 years
- National exposure for Indiana as Validation/Test site
- More jobs and revenue to multiple Indiana locations



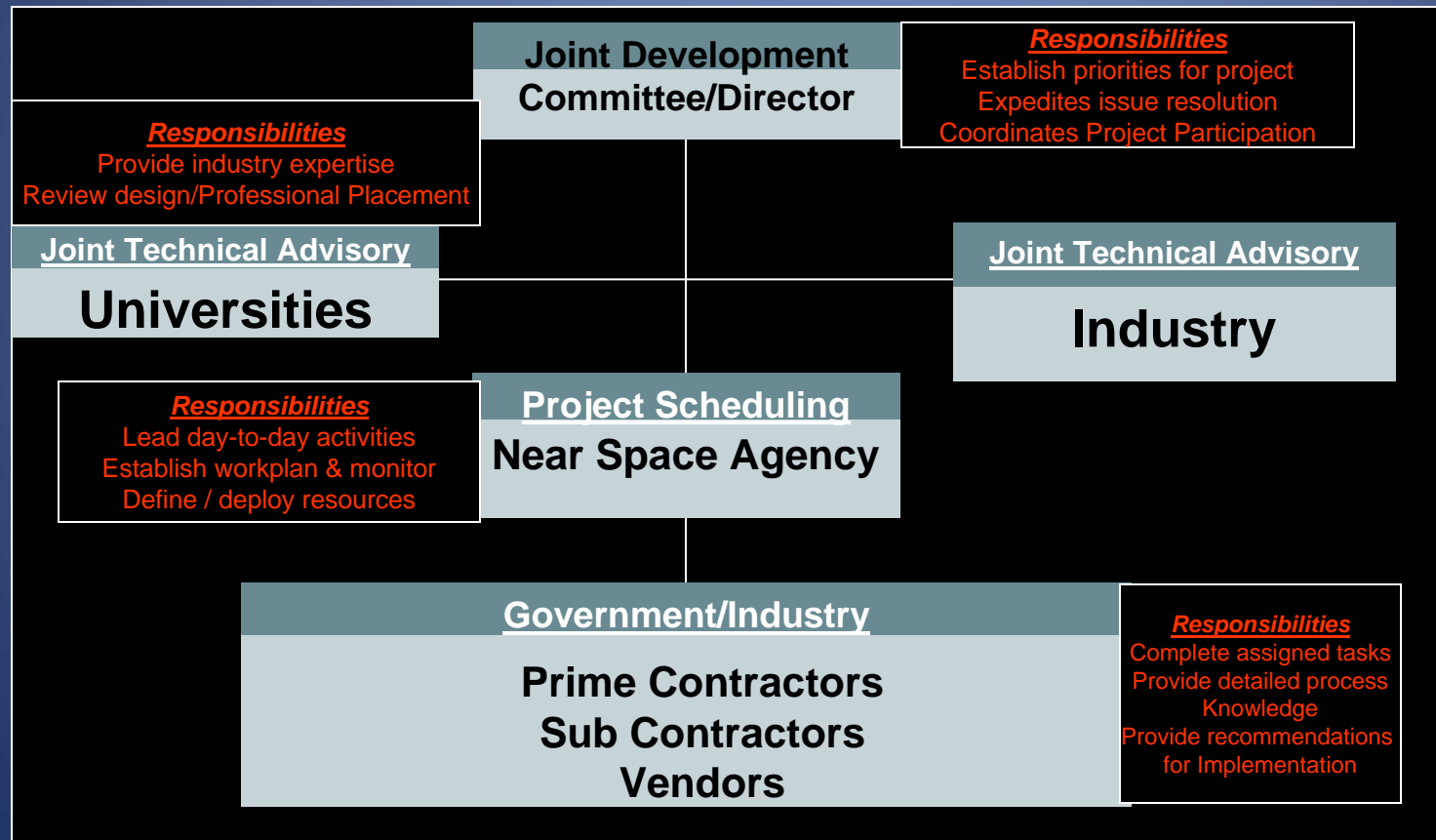
In The Pipeline

TMGLabs has been launching and conducting research in both 2006 and 2007 in Huntsville, AL and New Mexico. We re now funded for two more launches in February and several more throughout 2008. We are now engaging in rocket development for rapid deployment of UAV/MUAV systems.



Possible Organization

Project Roles & Responsibilities





Balloons

ISR

PRV



Help People Understand Benefits

Let's do something that is relatively low risk very soon so that there is state-wide excitement for the Space Port and build from that....but let's make money doing it

- Balloon Launches for ISR/PRV (February)
- Small (Tier I & Tier II) UAV Flights
- AeroStat Type test in low altitude
- Tethered tests
- Low altitude/Small Rocket Tests (2008)



Partnerhips

THE RIGHT WORKING RELATIONSHIP



Initial Responsibilities

Industry Guidelines:

- How will Primes /Subs work together
- Facilitate Protection if IP
- Identify suitable facilities around Indiana “Virtual Ports”
- Meet customers’ guidelines for T&E and Protocol

Indiana Will:

- Make part of State’s Marketing campaigns
- Create some incentives for companies to use Space Port
- Provide expertise through IEDC/OED (best use?)
- Set up a specific 21 Fund program for Space Port Projects (Low \$\$)
- Encourage universities to engage w/out 51% overhead rule (like 21 fund)



What It Means For Indiana over time

- ⦿ Hundreds of New Jobs for R&D
- ⦿ Expansion of Defense Industry
- ⦿ More Global Customers
- ⦿ New Supply Chain Industry
- ⦿ Increased Manufacturing
- ⦿ Indiana is part of US Interspace System